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s/ Pamela Hollander
Pamela Hollander

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the Application of:
Allen BORCHARDT, et al.

Serial No.: 10/718,337

Confirmation No.: 9247

Filed: November 19, 2003

For: INHIBITORS OF HEPATITIS C VIRUS
RNA-DEPENDENT RNA POLYMERASE,
AND COMPOSITIONS AND TREATMENTS
USING THE SAME

Group Art Unit: 1625

Examiner: Not Yet Assigned

Honorable Commissioner For Patents
P.O. Box 1450
Alexandria, VA 22313-1450

TRANSMITTAL LETTER

Transmitted herewith are the following documents:

- | | |
|---|------------------|
| 1. Return Receipt Postcard | 1 postcard; |
| 2. Transmittal of IDS | 1 page; |
| 3. Co-Pending US Application No. 10/299,510 | 282 total pages; |
| 4. PTO.SB/08A Form 1449 | 8 pages; and |
| 5. Copies of cited References | 74 References |

Respectfully submitted,

Date: July 30, 2004

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TRANSMITTAL OF INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. § 1.97(b) or 1.97(c)

37 CFR § 1.97(b)

- ☒ The Information Disclosure Statement submitted herewith is being filed within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d); within three months of the date of entry of the national stage as set forth in § 1.491 in an international application; before the mailing of a first Office Action on the merits; or before the mailing of a first Office Action after the filing of a request for continued examination under § 1.114.

37 CFR § 1.97(c)

- ☐ The Information Disclosure Statement submitted herewith is being filed after three months of the filing date of a national application other than a continued prosecution application under § 1.53(d); after three months of the date of entry of the national stage as set forth in § 1.491 in an international application; after the mailing of a first Office Action on the merits; or after the mailing of a first Office Action after the filing of a request for continued examination under § 1.114, but before the mailing date of (1) a Final Action under § 1.113; (2) a Notice of Allowance under § 1.311; or (3) an action that otherwise closes prosecution in the application. The Commissioner is hereby authorized to charge the fee as set forth in § 1.17(p) to Deposit Account Number 500329.



Applicant requests that the Examiner consider the following copending applications:

| Application Serial No. | Filing Date |
|---------------------------------------|-------------|
| 10/271,467 (see US 2003 / 0171425 A1) | |
| 10/299,510 | |
| | |

☒ Copies of these copending applications are enclosed.

☒ Applicant hereby requests consideration of the Information Disclosure Statement, USPTO form 1449, submitted herewith. Copies of the cited references, except as noted below, are enclosed.

☐ This application is a continuation, divisional or continuation-in-part of Serial No. . Copies of the cited references, if not enclosed, are available in the file of the parent application or parents thereof.


☒ This application was filed after June 30, 2003, or entered U.S. national stage under 35 U.S.C. § 371, after June 30, 2003. Copies of U.S. Patents and U.S. Patent Application Publications are not enclosed. (1276 OG 55).

☐ Applicant hereby requests consideration of the enclosed International Search Report, which was received in a related international patent application.

The Commissioner is hereby authorized to charge any fee deficiency, including any fee required under 37 C.F.R. § 1.17(p), or credit any overpayment, to Deposit Account Number 500329. A duplicate copy of this form is enclosed.

Respectfully submitted,

Date: July 30, 2004


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**INFORMATION DISCLOSURE
STATEMENT BY APPLICANT**

(Use as many sheets as necessary)

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|------------------------|-------------------|
| Application Number | 10/718,337 |
| Filing Date | November 19, 2003 |
| First Named Inventor | Allen BORCHARDT |
| Art Unit | 1625 |
| Examiner Name | To Be Assigned |
| Attorney Docket Number | PC25603A |

U.S. PATENT DOCUMENTS

| EXAMINER INITIAL | Cite No. | DOCUMENT NUMBER Number-Kind Code ² | Publication Date | Name of Patentee or Applicant of Cited | Pp., Columns, Lines, Where Relevant |
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| | AP | US 2003 / 0171425 A1 | 09-11-2003 | BOYER, Jr., et al. | |
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FOREIGN PATENT DOCUMENTS

| EXAMINER INITIAL | Cite No. 1 | Foreign Patent Document Country Code ³ Number ⁴ Kind Code ⁵ (if known) | Publication Date MM-DD- YYYY | Name of Patentee or Applicant of Cited Document | Pp., Columns, Lines, Where Relevant Passages or Relevant Figures Appear | T ⁶ |
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NON PATENT LITERATURE DOCUMENTS

| Examiner Initials | Cite No. 1 | Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, pp.(s), volume-issue number(s), publisher, city and/or country where published. | T ² |
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| Art Unit | 1625 |
| Examiner Name | To Be Assigned |
| Attorney Docket Number | PC25603A |

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| BA | BERTOLINI, et al., "A New Rational Hypothesis for the Pharmacophore of the Active Metabolite of Leflunomide, a Potent Immunosuppressive Drug," <i>J. Med. Chem.</i> , 1997, pp. 2011-2016, vol. 40, issue 13. |
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| BR | FRANCKI, et al., "Some observations on the Binding Properties of Alfalfa Mosaic Virus to Polystyrene and its significance to indirect ELISA," <i>Arch. Virol.</i> , 1991, pp. 219-235, vol. 2. |
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| BZ | ISHII, et al., "Expression of Hepatitis C Virus NS5B Protein: Characterization of Its RNA Polymerase Activity and RNA Binding", <i>Hepatology</i> , 1999, pages 1227-1235, Vol. 29. |
| CA | ISHIZUMI, K., et al. "Synthesis And Anxiolytic Activity of N-Substituted Cyclic Imides (1R*, 2S*, 3R*, 4S*)-N-[4-(2-Pyrimidinyl)-1-Piperazinyl]butyl]-2,3-Bicyclo[2.2.1]Heptanedicarboximide (Tandospirone) And Related Compounds," <i>Chem. Pharm Bull.</i> , 1991, pp. 2288-2300, vol. 39, no. 9. |
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| Application Number | 10/718,337 |
| Filing Date | November 19, 2003 |
| First Named Inventor | Allen BORCHARDT |
| Art Unit | 1625 |
| Examiner Name | To Be Assigned |
| Attorney Docket Number | PC25603A |

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| CJ | LORENTZEN, R. et al., "Application Of The Benzene Sector And The Benzene Chirality Rules To Perhydrobenzocycloalkenes And Related Compounds," <i>Journal Amer. Chem. Soc.</i> , 1992, pp. 2181-2187, vol. 114. |
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| CQ | POCH, O., et al., "Identification Of Four Conserved Motifs Among The RNA-Dependent Polymerase Encoding Elements" <i>The EMBO Journal</i> , 1989, pp. 3867-3874, vol 8, no. 12. |
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| Examiner Name | To Be Assigned |
| Attorney Docket Number | PC25603A |

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| CW | SHAN, D., et al., "Prodrug Strategies Based On Intramolecular Cyclization Reactions" <i>J. Pharm. Sci.</i> , 1997, pp. 765-767, vol. 86, no. 7. |
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| DC | TANAKA, T., et al., "Structure Of The 3' Terminus Of The Hepatitis C Virus Genome," <i>Journal of Virology</i> , May 1996, pp. 3307-3312, vol. 70, no. 5. |
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| | DH | WEINER, A.J., et al., "Evidence for Immune Selection of Hepatitis C Virus (HCV) Putative Envelope Glycoprotein Variants: Potential Role in Chronic HCV Infections", <i>Proc. Natl. Acad. Sci. USA</i> , 1992, pp. 3468-3472, vol. 89. | |
| | DI | WEINER, A.J., et al., "Variable And Hypervariable Domains Are Found In The Regions Of HCV Corresponding To The Flavivirus Envelope And NS1 Proteins And The Pestivirus Envelope Glycoproteins," <i>Virology</i> , 1991, pp. 842-848, vol. 180. | |
| | DJ | WYATT, C.A., et al., "Immunity In Chimpanzees Chronically Infected With Hepatitis C Virus: Role Of Minor Quasispecies In Reinfection" <i>Journal Of Virology</i> , March 1998, pp. 1725-1730, vol. 72, no. 3. | |
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